

KEEPING YOU INFORMED

A publication of Dr. Richard Adams

Dr. Richard C. Adams is proud to announce the acquisition of the Galileos 3D Cone-beam Digital Radiography from Sirona. This cutting edge technology allows Carolina Oral and Maxillofacial Surgery Center to provide the highest quality images to our patients and referring doctors. The standards of care are changing and our practice continues to take advantage of new technologies which can lower surgical risks and provide the best possible care for our patients. Galileos goes beyond traditional diagnostics and treatment capabilities by calculating a large volume 3D image set, more than 200 exposures, in a single low-dose 3D scan of 15 seconds or less.

The most ground breaking advantages of this system are the incredible resolution (up to .15mm voxel size), the three dimensional views with a very user friendly interface, and the accurate representation of the patient's anatomy. A typical panorex radiograph provides a two dimensional depiction and can be distorted up to 300% in the horizontal plane and 50% in the vertical axis. Without distortion, precise measurements can be performed in a 1:1 ratio. The three dimensional reconstruction is available in less than a minute and allows immediate visual diagnosis and consultation with our patients. The unit itself appears very much like a traditional panoramic machine and is very patient friendly. We have been amazed with our patient's reactions viewing their anatomy as they have never seen it before.

This cutting edge technology is useful for many different applications. We are now able to provide our patients with a more accurate assessment of vital structures preoperatively to better assess surgical risks and allow for the best surgical approach to lessen the chance of complications.

Another obvious use of this system is its application to implant surgery. A high resolution scan will allow for better patient education and treatment planning. We can now give patients immediate feedback regarding the need for bone grafting and the position of vital structures. There are also many avenues available to produce CT generated surgical guides for implant placement in the more complicated cases.

Our Galileos Imaging System also provides a valuable service for other dentists and specialists. The patient information can be imported to a variety of third party software systems used by many orthodontic and implant practices for advanced analysis and planning. An imaging patient appointment can be performed in as little as 10-15 minutes.

We always welcome input to allow our office to provide the best service for your practice. Feel free to stop by to experience our Galileos Imaging System in person, or contact Jessica at 480-4890 to set up a time that will work best for you.



413 Owen Drive, Suite 102 • Fayetteville, NC 28304
(910) 480-4890 • Fax (910) 480-4893
www.carolinaoral.com